

ABSTRACT OF THE DISCLOSURE

An image pick-up apparatus for capturing parallax images for the left eye and right eye which meet a
5 fusion condition. A stereo camera image-captures a subject and displays captured parallax images on a stereoscopic display. An observer looks at the screen of the display. The lines of sight of both eyes of the observer are then detected, and a distance from the view
10 point of the observer to the subject is measured based on the line-of-sight data. Instead of the observer, the apparatus determines whether the subject distance satisfies the fusion condition. The apparatus thus determines an image-fusible range, based on a (known)
15 convergence angle, a (known) base line distance, a (known) size of the display, and the distance of distinct vision of the observer.